## **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions and listings of claims in the application:

## LISTING OF CLAIMS:

- 1. (original): A reflector comprising:
- a transparent film;



an adhesive layer disposed on one surface of said transparent film;

a groove structure provided on the other surface of said transparent film, said groove structure having a plurality of grooves including optical path changing slopes aligned in a substantially constant direction at an inclination angle in a range of from 35 to 48 degrees with respect to a plane of said transparent film;

a transparent cover film formed so as to cover an outer surface of said groove structure; and

a light diffusing type reflection layer disposed on an outer surface of said cover film.

2. (original): A reflector according to claim 1, wherein said optical path changing slopes are constituted by at least two kinds of slopes in which one kind of slopes aligned in a substantially constant direction serve as a reference while the other kind of slopes are aligned substantially in a direction opposite to said one kind of slopes;

said adhesive layer is covered with a release liner; and

said light diffusing type reflection layer is made of a metal thin film or dielectric multilayer film provided on a fine prismatic surface.

3. (original): A reflector according to claim 1, wherein said inclination angle of each of said optical path changing slopes with respect to said film plane is in a range of from 38 to 45 degrees.

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- 4. (original): A reflector according to claim 1, wherein each of said grooves is shaped substantially like an isosceles triangle, or a triangle other than said isosceles triangle, or a tetragon in section.
- 5. (currently amended): A reflector according to claim 1, wherein said groove structure further includes flat surfaces each of which is inclined at an inclination angle of not larger than at most 5 degrees with respect to said film plane, and

a projected area, on said film plane, of said-flat surfaces is not smaller than at least 5 times as large as a projected area, on said film plane, of said slopes each having an inclination angle of not smaller than at least 35 degrees.

6. (currently amended): A reflector according to claim 1, wherein said groove structure is constituted by continuous grooves extended from one end of the film to the other end thereof or by discontinuous grooves each having a length not smaller than at least 5 times as large as a

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depth of each of said discontinuous grooves and having optical path changing slopes formed in a direction of the length of said discontinuous grooves.

7. (original): A reflector according to claim 1, wherein ridgelines of said optical path changing slopes are parallel to or inclined within an angle range of .+-.30 degrees with respect to one side of said transparent film.

- 8. (original): A reflector according to claim 1, wherein said adhesive layer is of a light diffusing type.
- 9. (original): A lighting-external light double mode liquid-crystal display device comprising:
  - a reflector according to claim 1; and
  - a transmission type liquid-crystal panel,

wherein said reflector is bonded to a back side (opposite to a viewing side) of said transmission type liquid-crystal panel through said adhesive layer of said reflector.

- 10. (original): A liquid-crystal display device according to claim 9, further comprising a light source disposed on at least one of side surfaces of said transmission type liquid-crystal panel, said side surface facing said optical path changing slopes of said reflector.
  - 11. (new): A double mode liquid-crystal display device, comprising:

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a transmission-type liquid-crystal panel having a viewing side and a back side opposite the viewing side; and

a reflector including:

a transparent film having two surfaces;

an adhesive layer disposed on one surface of the transparent film and bonding the reflector to the back side of the transmission-type liquid-crystal panel;

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a groove structure provided on the other surface of the transparent film and having a plurality of grooves, each groove including optical path changing slopes at an inclination angle with respect to a plane of the other surface of the transparent film;

a transparent cover film having an inner surface located adjacent the other surface of the transparent film and an outer surface opposite the inner surface; and

a light diffusing type reflection layer disposed on the outer surface of the transparent cover film.

- 12. (new): The double mode liquid-crystal display device of claim 11, wherein the inclination angle of each groove is in a range of from 35 to 48 degrees with respect to the plane of the other surface of the transparent film.
- 13. (new): The double mode liquid-crystal display device of claim 11, wherein the transparent cover film has a substantially planar configuration.